sisting essentially of" term to reflect its well-established meaning in the art. In particular, by use of this language, Applicant now claims the compositions which include the specifically claimed components and any additional non-claimed component which does not materially alter the basic and novel characteristics of the claimed invention, which relates to an emollient composition which is a solid at room temperature and a liquid at approximately body temperature or cosmetic compositions which include the emollient composition as claimed. The claims have been amended to provide an appropriate scope consistent with the originally filed application and to dispose of all remaining issues of patentability with the Examiner in order to expedite allowance of this application. Support for the amendment to the claims can be found throughout the specification and the originally filed claims and in particular, on pages 11-12, 16 and in the originally filed examples on pages 17, 18, 19 and 20 and in the originally filed claims. No new matter is believed to have been added by this amendment.

The Examiner has rejected claims 49-58 under 35 U.S.C. §103 for the reasons which are stated in the Examiner's Office Action dated January 22, 1998. Essentially, the Examiner contends that new claims 49-58, filed with Applicant's amendment of October 24, 1997 used the term "comprising" to describe the claimed emollient compositions and that such description was overbroad so as to provide a scope of invention which was obvious in light of Amaya. Applicant in the instant response has amended the claims to provide for a scope consistent with the use of the term "consisting essentially of", an amendment which Applicant respectfully submits clearly obviates the Examiner's concerns about the breadth of originally filed claims 49-58. Applicant respectfully submits that the instant claims are now in condition for allowance and presents reasons for the patentability of the instant claims hereinbelow.

The 35 U.S.C. §103(a) Rejection

The Examiner has rejected claims 49-58 under 35 U.S.C.

§103(a) as being unpatentable over Amaya, Chem Abstract 113:178040c ("Amaya"). The Examiner cites Amaya for teaching the use of unsaturated polycarboxylic acid alkyl esters wherein the ester groups are equal to or greater than 10 carbons. The Examiner relies on Amaya for further teaching specific and structrually similar compounds which read on the fumarates used in the present invention. In addition, the Examiner contends that the Amaya compounds "show good compatability with the skin."

Based upon the putative disclosures of Amaya, the Examiner contends that the present invention is unpatentable because it would have been obvious to have used the compositions of Amaya in cosmetics which are applied to the skin. The Examiner further contends that the present invention is obvious since a skilled artisan would be motivated to add the compositions of Amaya to other well known cosmetics which were applied to the skin because of the good skin compatibility properties of those compositions. Notwithstanding the presentation of new claims 49-58, the Examiner argues that the open-ended nature of Applicant's use of the term "comprising" in original claims 49-58 rendered those claims "broad enough to read on the cosmetic composition of Amaya." Applicant respectfully traverses the Examiner's rejection.

The present invention relates to novel cosmetic emollient compositions which are diester fumarates containing C_{12} to C_{15} straight chain alkyl side chains as well as certain cosmetic formulations based upon these novel fumarate diesters. The diester fumarates according to the present invention are advantageously prepared by reacting a mixture of C_{12} to C_{15} straight chain alcohols with fumaric acid to produce the fumarate diesters. Fumarate diesters according to the present invention have unexpected properties— these compounds exhibit emollient properties and are solids at room temperature, but melt at body temperature. This is particularly surprising given that the corresponding maleate esters are liquids at room temperature and do not exhibit the same advantageous characteristics exhibited by the compositions of the present invention. Thus, the fumarate diester com-

pounds according to the present invention may be advantageously employed in cosmetic formulations to instill these formulations with properties which represent significant improvement in feel and physical properties. Moreover, these compounds are safe and effective for use in cosmetic formulations. By using the term "consisting essentially of" in the instant claims, Applicant has specifically obviated any argument that the Examiner may posit that the claims are overbroad and may actually read on the disclosure of Amaya.

The Examiner contends that the disclosure of Amaya renders the present invention unpatentable. Applicant respectfully submits that Amaya is actually <u>inapposite</u> to the present claims which clearly dispose of any argument that Amaya is somehow relevant. Amaya relates to the use of certain unsaturated polycarboxylic acid alkyl esters to be included in a mixture of comonomers to produce a copolymer in the form of a spherical fine particle powder which is included in cosmetic applications. Based upon the disclosure presented with the Examiner's office action, Amaya is completely <u>inapposite</u> to the present invention.

Amaya teaches that a number of polycarboxylic acid alkyl esters may be used with other comonomers to produce powder-like polymers. Thus, Amaya, in the first instance, teaches any number of unsatured polycarboxylic acid esters unrelated to the present invention to be reacted with other comonomers, such as for example, crosslinking monomers, to produce polymeric compositions which have powder-like qualities. The polymeric compositions of Amaya are completely unlike the present invention. In the second instance, there is absolutely no teaching or suggestion in Amaya that the emollient compositions of the present invention which are based upon diesters of fumarates and a mixture of straight chain \mathcal{C}_{12} to \mathcal{C}_{15} alcohols would be advantageous.

There is absolutely nothing in Amaya which could even reasonably be viewed as pointing to the present invention. In particular, the <u>only</u> example which is posited by Amaya is a polymer which is produced from the polymerization of a mixture of

monomers comprising distearoyl maleate, styrene and divinylbenzene utilizing benzoyl peroxide as a catalyst for the polymerization. How this example even relates to the present invention is a mystery to Applicant. Indeed, the only example cited by Amaya relies on a polycarboxylic acid which is clearly unrelated to the present invention because it is based upon a C_{18} alcohol diester of maleic acid. This is clearly not the present invention. Distearoyl maleate is a product which is formed from the reaction of a C_{18} alcohol with maleic acid, an unsaturated polycarboxylic acid diester which is a liquid at room temperature. Amaya advantageously employs this maleic acid diester to form polymeric compositions.

Amaya clearly does not teach or suggest the present invention. Moreover, based upon the teachings of Amaya, there is absolutely no motivation for one of ordinary skill to even look for an emollient composition which has the characteristics of the present invention-i.e., the desirable characteristics of being a solid at room temperature and a liquid at body temperature. Amaya, such considerations are completely irrelevant to what Amaya is attempting to accomplish. In Amaya, the goal is to produce a polymeric composition which has powder-like character-Thus, for Amaya, any polycarboxylic acid diester which is a liquid at elevated polymerization temperatures and has an alkyl group which is of sufficient size to instill powder-like characteristics to the resulting polymer, may be utilized as a comonomer. In choosing a polycarboxylic acid diester comonomer, Amaya does not focus on characteristics which are similar to those of the present invention, but rather focuses on characteristics which are completely unrelated to the compositions of the present invention. Once polymerized, the powder-like compositions of Amaya are not relying on the unique characteristics of the polycarboxylic acid diester chosen, but rather are relying on the alkyl side-chains contributing whatever benefit they provide to the polymeric compositions produced. It is respectfully submitted that whatever benefit is provided to the polymeric compositions of Amaya is completely unrelated to the present inven-In short, Amaya provides absolutely no motivation whattion.

soever to produce the present invention.

It is respectfully submitted that Amaya does not teach or even remotely suggest the present invention. To the extent that Amaya teaches anything, it is the use of an unsaturated polycarboxylic diester as a comonomer in a mixture of comonomers to produce a polymeric composition having powder-like characteristics. There is clearly no teaching of the present invention in Amayaindeed, a fumaric acid diester based upon a mixture of C_{12} to C_{15} alcohols is not disclosed or even obliquely mentioned by Amaya. Moreover, the unexpected characteristics that the present compositions exhibit is clearly irrelevant to Amaya's teachings and there is absolutely no motivation from the disclosure in Amaya to produce any composition which is solid at room temperature and a liquid at body temperature, let alone the compositions of the present invention. In short, Amaya is a reference which simply does not teach or suggest the present invention. It is respectfully submitted that the Examiner has not made out a cogent case that the present invention is unpatentable.

Applicant respectfully submits that the cited art is deficient and completely fails to render the instant invention obvious. Indeed, in light of the amended claims, Applicant's argument that the cited art is inapposite is particularly cogent.

For all of the above reasons, Applicant respectfully asserts that the claims set forth in the amendment to the application of the present invention are now in compliance with 35 U.S.C. Applicant respectfully submits that the present application is now in condition for allowance and such action is earnestly solicited.